

CASSETTE-RECEIVER

# KRC-3004 KRC-2004 KRC-1004

# INSTRUCTION MANUAL

KENWOOD CORPORATION

Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.

#### For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on this product.

Model KRC-3004/2004/1004

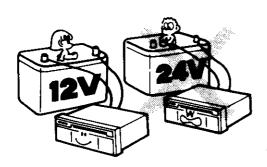
Serial	number	

©PRINTED IN JAPAN B50-7999-00(K)(T) 91/12 11 10 9 8 7 6 5 4 3 2 1 90/12

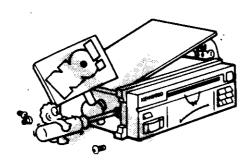


TO PREVENT ELECTRIC SHOCK, FIRE AND OTHER INJURY. PLEASE NOTE THE FOLLOWINGS:

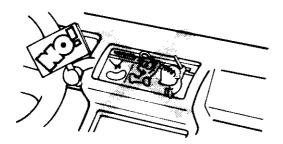
 The unit is designed to be connected 12 V DC and negative grounding.



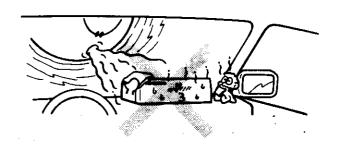
 Do not open enclosure, such as front panel, top or bottom cover.



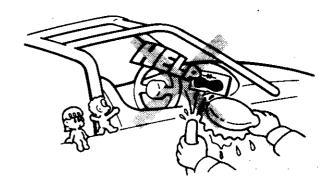
 Do not drop pieces of metal, needles, coins and other electrically conductive materials into the unit.



Do not place the unit, where it will be exposed to direct sunlight or close to heating device.



· Do not dash water on the unit.



Do not place the unit in areas of excessive dust, high humidity or on unstable surfaces.

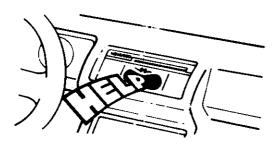


#### **CLEANING**

- Turn the power off, before cleaning the unit.
- Do not use any type of abrasive pad, thinner, benzine and any such kind of objects.
- Wipe the front panel and other exterior surfaces of the unit with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.



If an abnormal smell or smoke is detected, immediately turn the power off.



If you have difficulty in installing the set in your car, please contact your KEN-WOOD dealer.

#### **FCC WARNING:**

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.



#### **NOTES ON HANDLING TAPE**

- Before loading a cassette, check the tape for slack. If there is slack tape, remove it using a pencil to turn one of the spools in the cassette shell.
- Do not expose the cassette tape to direct sunlight. Leaving a cassette at high temperature or humidity can deform the cassettte shell or tape.
- 120-minute tape is very thin. Avoid its use, because it can easily be twisted around the pinch roller.

#### **HEAD CLEANING**

Magnetic particles from the tape adhere to the head surface after a long period of use, resulting in noise and poor quality sound. Clean the head with cleaning tape available at your KENWOOD dealer. And follow the directions with the head cleaner.

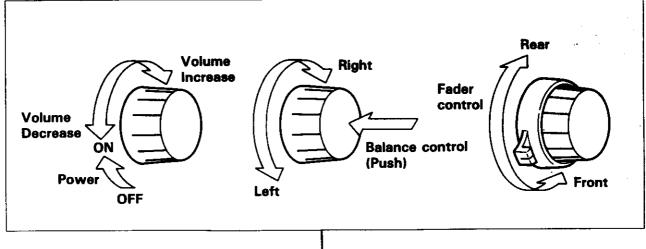
# **CONTENTS**

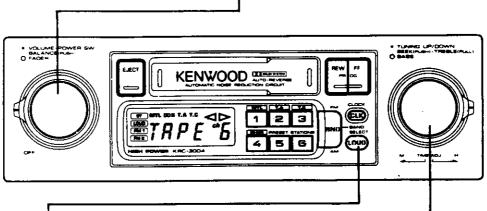
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Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Cor-

poration.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

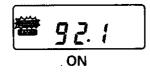
# **SOUND LEVEL AND QUALITY**

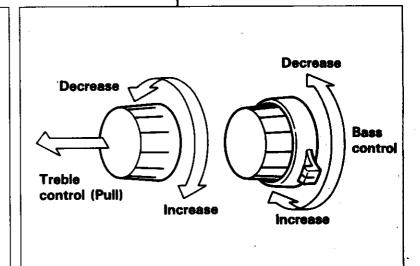




#### LOUDNESS SWITCH

When listening at low volume levels, pressing this switch will activate the loudness circuit which will compensate for the human ear's lack of sensitivity to bass at low levels.

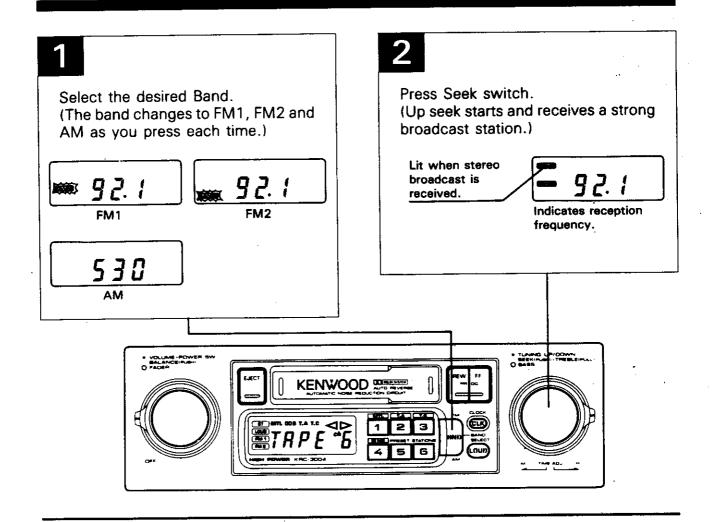






- Turning the power ON automatically turns this unit to a tuner mode.
- Explain how to operate hereafter with the power ON.

### **SEEK TUNING**



#### **■** Channel space selection

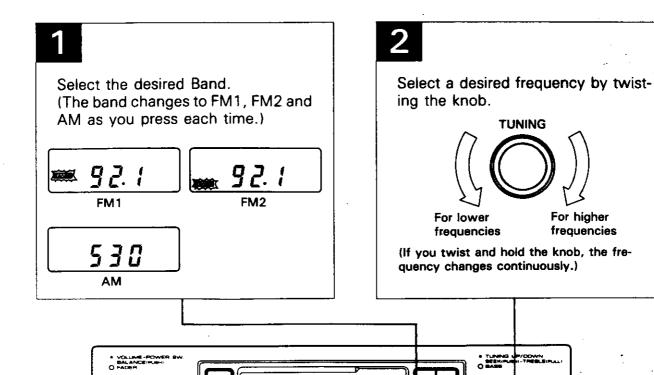
The KRC-3004/2004/1004 has a channel space select function. Two spacing frequencies are available for both FM and AM, 200 kHz or 50 kHz for FM, and 10 kHz or 9 kHz for AM.

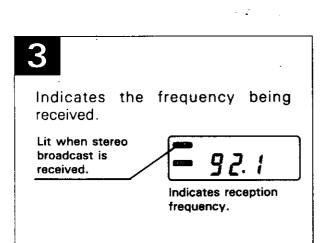
- 1. With the power OFF, press the "1" and the "5" Preset station switches simultaneously.
- 2. Turn the power ON while holding both switches pressed.
- 3. The channel spacing is changed to 50 kHz for FM and 9 kHz for AM. To return to the initial condition (200 kHz for FM and 10 kHz for AM), perform this operation once more.
- When the channel spacing is set to 50 kHz for FM, the last "50" is expressed by "5" in the display.

For example:

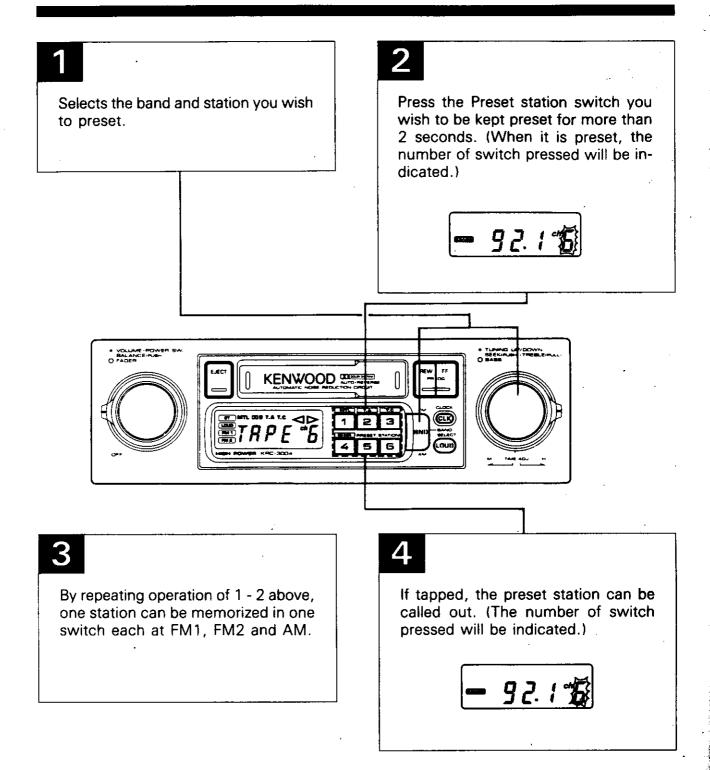
- When the channel space is changed, the memorized contents are stored.
- The channel space selection is not used in United States or Canada.

## **MANUAL TUNING**





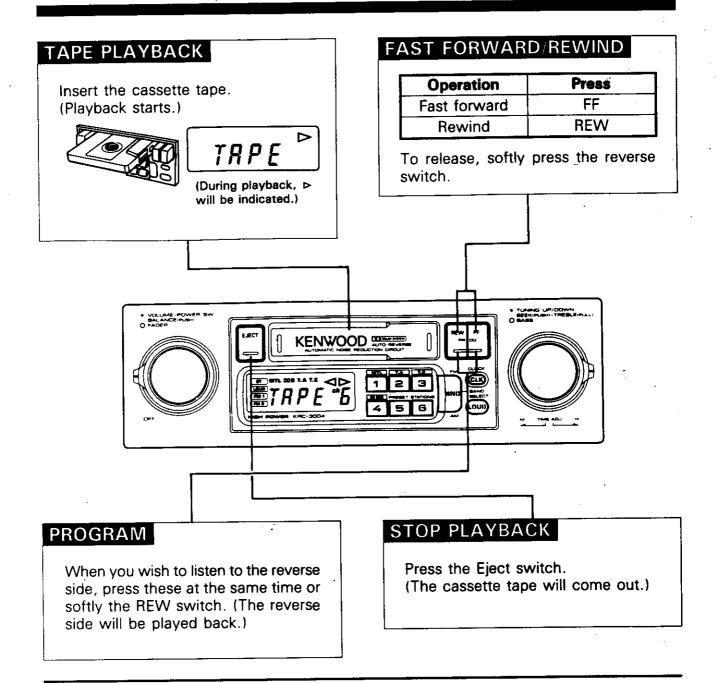
### PRESET STATION TUNING





• If preset is to be made anew on the switch already preset, what was preset before will be replaced with what is to be preset.

## TAPE PLAYBACK



#### < Playback side >

When inserted with the side A up.

indicator	Playback side
٥	Side A
٥	Side B

This will be reversed when inserted with the side B up.

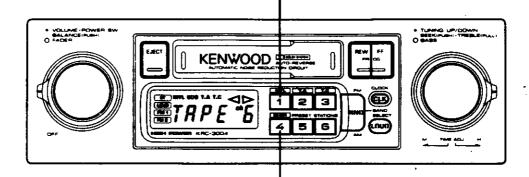
### METAL TAPE AND DOLBY NR



In tape play mode, press Metal switch to play back a CrO<sub>2</sub> or Metal tape.



ON



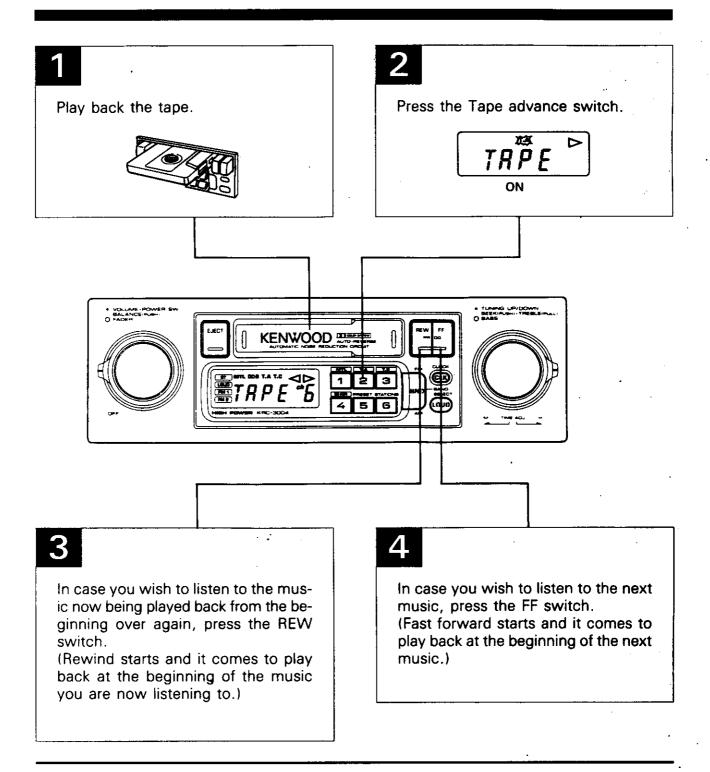
#### ■ Functions of the KRC-3004

#### DOLBY B NR

In tape play mode, press NR switch when playing back a tape recorded with Dolby B NR system.



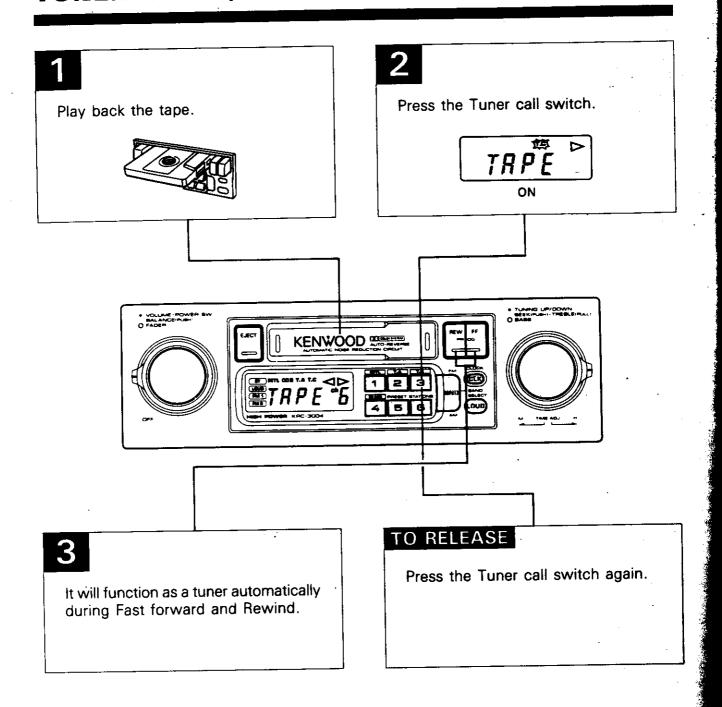
# **TAPE ADVANCE** (Functions of KRC-3004)





- Please note that in case of the following tapes, sometimes the tape advance does not function properly.
- 1. When an interval between the music is less than 5 seconds.
- 2. When a recorded portion of the low sound volume continues for more than 5 seconds.

# **TUNER CALL** (Functions of the KRC-3004)

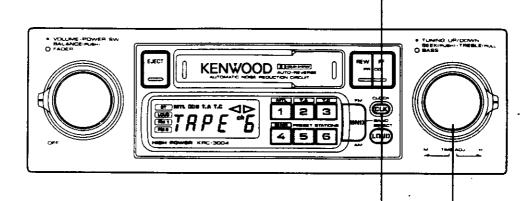


### **CLOCK INDICATION AND CLOCK ADJUSTMENT**

#### ■ CLOCK INDICATION

Every time you press the Clock switch, the following indication will appear.

Mode	Indication
Tuner mode	Reception frequency ↔ Clock
Tape mode	TAPE ↔ Clock



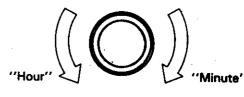
#### ■ CLOCK ADJUSTMENT

1

Make it clock indication and then continue to press the Clock switch.

2

While the above-mentioned operation of 1 is continued, adjust "HOUR" and "MINUTE" by turning the knob in the counter-clockwise and clockwise drections respectively.



# **ACCESSORIES AND INSTALLATION**

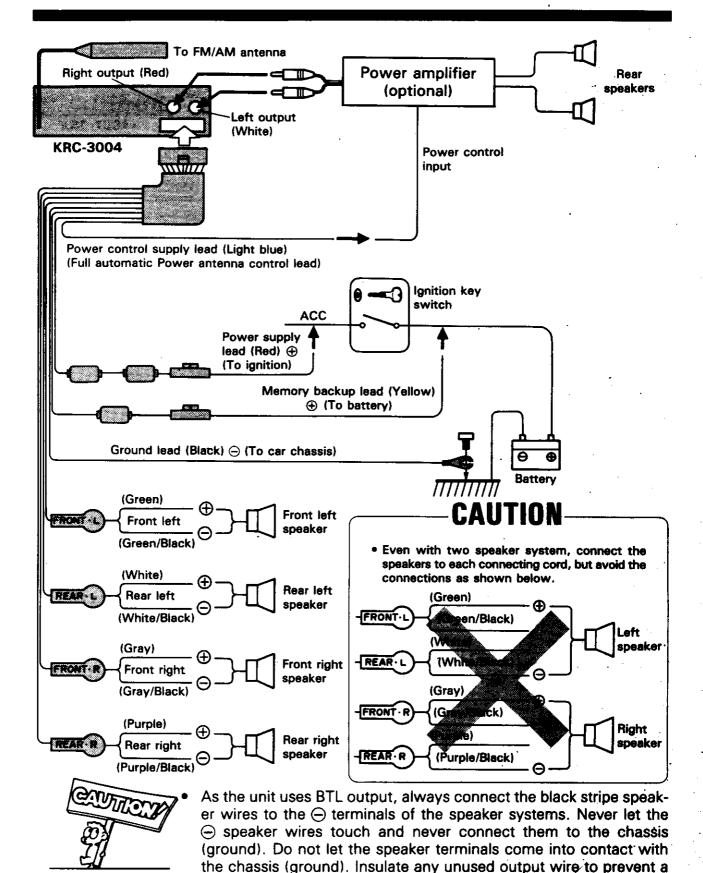
#### ACCESSORIES

No.	Part name	External View	Number of units	No.	Part name	External View	Number of units
(	Trim Plate	10	1	6	Washer assemblies screw (M5×8)		1
1	inm Plate	late		7	Tapping screw (M5×16)		2
2	Control Knobs		2	8	Hex. Bolt (M5 × 20)		1
3	Control Knobs		2	9	Hex. :Nuts (M10)	<b>(i)</b>	4
	Manage Plans		2	10	Lock Washers (M5)		4
4	Metal Plate			10	Flat Washers (M5)	0	1
(	Metal Mounting		1	12	Hex. Nuts (M5)		1
<b>(5)</b>	Metal Mounting Strap	•	13	Flat Washers (M10)	0	4	

#### **■ INSTALLATION**

- 1. Before installation and wiring, remove the ( ) terminal of the battery to prevent short-circuiting.
- 2. Connect the input and output cords of the system.
- 3. Connect the ground to the metal chassis of the car.
- 4. Connect the back-up power supply lead (yellow).
- 5. Connect the accessory power lead (red).
- 6. Install the set and after confirming the installation and wirings are correct, connect the (-) terminal of the battery.

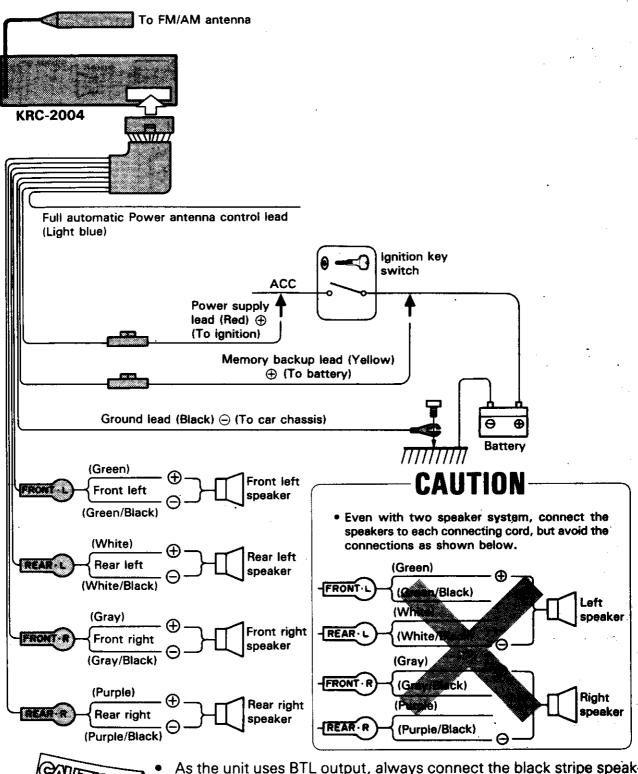
### **CONNECTIONS (KRC-3004)**



- If a fuse is blown, first check that the associated wires are not short-circuited, then replace the fuse with a new one having the same capacity.
- Secure unconnected wires properly so that they do not contact the vehicle chassis.

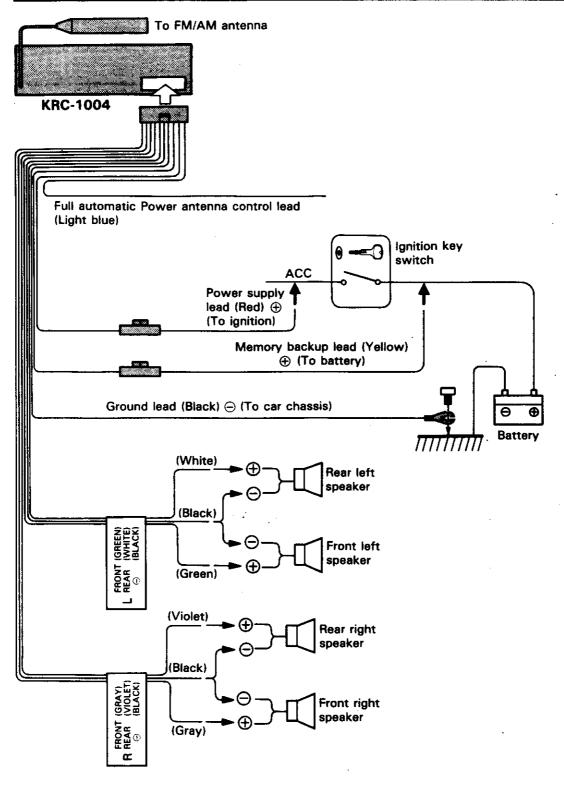
short circuit.

## **CONNECTIONS (KRC-2004)**



- If a fuse is blown, first check that the associated wires are not short-circuited, then replace the fuse with a new one having the same capacity.
- Secure unconnected wires properly so that they do not contact the vehicle chassis.

# **CONNECTIONS (KRC-1004)**

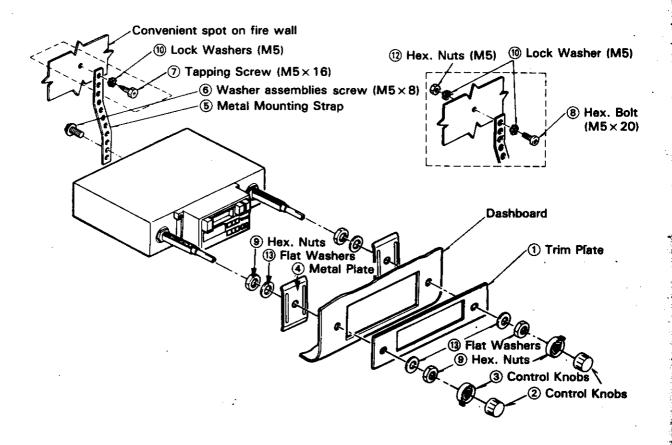




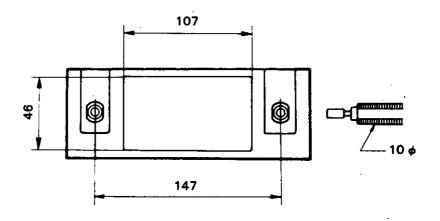
- If a fuse is blown, first check that the associated wires are not shortcircuited, then replace the fuse with a new one having the same capacity.
- Secure unconnected wires properly so that they do not contact the vehicle chassis.

### **INSTALLATION**

#### < Example of installation >



The distance between the right and left shafts is adjusted to 147 mm.



# TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Possible cause	Remedy
No sound one channel	The balance/fader control is extremely rotated to one side.	Adjust the balance/fader control.
Poor reception	The antenna is not extended.	Extend the antenna.
Tonal quality is inferior.  Tape creaks.	Head is stained.	Carry out head cleaning.

# **SPECIFICATIONS**

FM TUNER SECTION  Frequency Range (200 kHz space)  (50 kHz space)  Usable Sensitivity  50 dB Quieting Sensitivity  Frequency Response (±3 dB)  Signal to Noise Ratio  Selectivity  Capture Ratio  Image Response Ratio  IF Response Ratio  Stereo Separation (1 kHz)	
AM TUNER SECTION Frequency Range (10 kHz space)	530 kHz ~ 1700 kHz 531 kHz ~ 1611 kHz 28 dB (30 μV)
CASSETTE DECK SECTION  Tape Speed	30 Hz~14 kHz (±3 dB) 30 Hz~16 kHz (±3 dB) 42 dB
AUDIO SECTION [KRC-3004/2004] Maximum Output Power Output Power (10% THD, 1 kHz, 4 ohms)	25 W + 25 W or 15 W × 4 20 W + 20 W 15 W + 15 W
[KRC-1004] Maximum Output Power Output Power (10% THD, 1 kHz, 4 ohms) (1% THD, 30 Hz~20 kHz, 4 ohms)	
Maximum Output Power	
Maximum Output Power  Output Power (10% THD, 1 kHz, 4 ohms)  (1% THD, 30 Hz~20 kHz, 4 ohms)  Tone Action	